## What is claimed is:

1. A hydrodynamic bearing system, comprising:

a shaft;

a bearing sleeve, said bearing sleeve having an inner cylindrical bore and said shaft being inserted into said inner cylindrical bore;

a bearing gap formed between said shaft and said bearing sleeve, said bearing gap being filled with a lubricating oil; and

a shield enclosing said bearing sleeve,

wherein said shield is secured to an end surface of said bearing sleeve at a position on said end surface that is distanced from said bearing gap, and wherein said shield does not contact said lubricating oil.

- 2. The hydrodynamic bearing system according to Claim 1 further comprising at least one bearing element mounted on said shaft, wherein said bearing gap is formed between said bearing sleeve and said bearing element.
- 3. The hydrodynamic bearing system according to Claim 1 further comprising a lubricating oil reservoir, wherein said shield is secured to said end surface of said bearing sleeve at a position that is distanced from said lubricating oil reservoir.
- 4. The hydrodynamic bearing system according to Claim 1, wherein said end surface of said bearing sleeve further comprises a recess distanced from said

bearing gap, wherein a wall is formed between said recess and said bearing gap, and wherein said shield is secured to said bearing sleeve within said recess.

- 5. The hydrodynamic bearing system according to Claim 1, further comprising a temperature barrier groove.
- 6. The hydrodynamic bearing system according to Claim 1, wherein said shield is secured to said bearing sleeve by laser welding.
- 7. A spindle motor having a hydrodynamic bearing system, said hydrodynamic bearing system comprising:
  - a shaft;
- a bearing sleeve, said bearing sleeve having an inner cylindrical bore and said shaft being inserted into said inner cylindrical bore;
- a bearing gap formed between said shaft and said bearing sleeve, said bearing gap being filled with a lubricating oil; and
  - a shield enclosing said bearing sleeve,

wherein said shield is secured to an end surface of said bearing sleeve at a position on said end surface that is distanced from said bearing gap, and wherein said shield does not contact said lubricating oil.

- 8. The spindle motor according to Claim 7 further comprising at least one bearing element mounted on said shaft, wherein said bearing gap is formed between said bearing sleeve and said bearing element.
- 9. The spindle motor according to Claim 7 further comprising a lubricating oil reservoir, wherein said shield is secured to said end surface of said bearing sleeve at a position that is distanced from said lubricating oil reservoir.
- 10. The spindle motor according to Claim 7, wherein said end surface of said bearing sleeve further comprises a recess distanced from said bearing gap, wherein a wall is formed between said recess and said bearing gap, and wherein said shield is secured to said bearing sleeve within said recess.
- 11. The spindle motor according to Claim 7, further comprising a temperature barrier groove.
- 12. The spindle motor according to Claim 7, wherein said shield is secured to said bearing sleeve by laser welding.
- 13. A method of manufacturing a hydrodynamic bearing system, comprising the steps of:

mounting a bearing element onto a shaft;
inserting said shaft with said bearing element into a bearing sleeve;

filling a bearing gap with lubricating oil while observing the fill level of said lubricating oil;

placing a shield onto said bearing sleeve such that said shield does not contact said lubricating oil; and

welding said shield to said sleeve.